

1 DATA RELATIONSHIPS PROCESSOR  
2 WITH UNLIMITED EXPANSION CAPABILITY  
3

4 Karol Doktor  
5  
6

7 ABSTRACT OF THE DISCLOSURE

8 Machine automated techniques are described for a method  
9 of data processing called Relationships Processing. A  
10 computing system is disclosed which provides for the high  
11 speed recording and extraction of data objects (entities)  
12 and for the development data representing a queried  
13 relationship between the entities. The system is expandable  
14 to handle the relatively voluminous data bases of large,  
15 commercial data repositories.

16 A user defines set of entities and allowed  
17 relationships between the entities. The user can expand  
18 this set of allowed entities and relationships at any time  
19 during the life of the system without reprogramming or  
20 compiling of computer program code or disrupting concurrent  
21 operational use of the system. Large systems can now be  
22 built that are no longer limited to a scope of design  
23 requirements known during initial systems development. For  
24 a given set of defined relationships the system allows the  
25 user to perform complex inquiries (again without programming  
26 at the code level) that would normally require multiple  
27 nested inquiries to be coded programmatically and would not  
28 achieve the performance levels of the Relationships  
29 Processor.  
30  
31  
32  
33

34 I hereby certify that this correspondence is being deposited with the United States  
35 Postal Service as express mail in an envelope addressed to: Commissioner of  
36 Patents and Trademarks, Washington, D.C. 20231, on May 21  
37 19 90. Express Mail Receipt No. B035013590A  
38 5/21/90 John J. Farnam  
Date of Signature